

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/932,519
Source: IFW/6
Date Processed by STIC: 9/19/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/937,519

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**


- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220>
  Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a **corrupted file**, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

2 <110> APPLICANT: Krupp, Guido
 4 <120> TITLE OF INVENTION: Detection of nucleic acid amplified products
 6 <130> FILE REFERENCE: 66741-013
 8 <140> CURRENT APPLICATION NUMBER: 09/937,519
 9 <141> CURRENT FILING DATE: 2002-03-05
 11 <150> PRIOR APPLICATION NUMBER: PCT/EP99/07127
 12 <151> PRIOR FILING DATE: 1999-09-27
 14 <150> PRIOR APPLICATION NUMBER: DE 199 15 141.5
 15 <151> PRIOR FILING DATE: 1999-03-26
 17 <160> NUMBER OF SEQ ID NOS: 202
 19 <170> SOFTWARE: PatentIn Ver. 2.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 4
 23 <212> TYPE: DNA
 24 <213> ORGANISM: artificial sequence
 26 <220> FEATURE:
 28 <220> FEATURE: *delete extra <220> (global error)*
 29 <223> OTHER INFORMATION: Description of the molecule of DNA/RNA combination:
 30 artificial DNA sequence
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 34 RNA sequence
 36 <400> SEQUENCE: 1
 37 gaaa
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 7
 42 <212> TYPE: DNA
 43 <213> ORGANISM: artificial sequence
 45 <220> FEATURE:
 47 <220> FEATURE: *delete*
 48 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 49 RNA sequence
 51 <400> SEQUENCE: 2
 52 *cuganga*
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 14
 57 <212> TYPE: DNA
 58 <213> ORGANISM: artificial sequence
 60 <220> FEATURE:
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 64 DNA sequence
 66 <400> SEQUENCE: 3

pp 1-9
 Does Not Comply
 Corrected Diskette Needed

insufficient explanation
give source of genetic material (see item 11 on Euro summary sheet)

This is also a combined DNA/RNA sequence
insufficient
(see p. 7)

insufficient
artificial

W-->

RAW SEQUENCE LISTING

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Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

67 tccgagccgg wcgr 14
 70 <210> SEQ ID NO: 4
 71 <211> LENGTH: 16
 72 <212> TYPE: DNA
 73 <213> ORGANISM: artificial sequence
 75 <220> FEATURE:
 77 <220> FEATURE:
 78 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 79 DNA sequence

insufficient

16

81 <400> SEQUENCE: 4
 82 rggctagcha caacga
 85 <210> SEQ ID NO: 5
 86 <211> LENGTH: 13
 87 <212> TYPE: DNA
 88 <213> ORGANISM: artificial sequence
 90 <220> FEATURE:
 92 <220> FEATURE:

also combined DNA/RNA

93 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 94 RNA sequence

insufficient

13

96 <400> SEQUENCE: 5
 97 ggaaucgaaa cgc
 100 <210> SEQ ID NO: 6
 101 <211> LENGTH: 32
 102 <212> TYPE: DNA
 103 <213> ORGANISM: artificial sequence
 105 <220> FEATURE:

106 <221> NAME/KEY: modified base
 107 <222> LOCATION: (24). (25) (24)
 108 <223> OTHER INFORMATION: modified nucleotide at position 24:
 109 Pyridin-4-one (cf. Burgin et al., 1996)
 111 <220> FEATURE:

Keep this, but explain

112 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 113 RNA/DNA sequence

source of genetic material on another <223> line

115 <220> FEATURE:
 116 <221> NAME/KEY: modified base
 117 <222> LOCATION: (27).. (28) (27)
 118 <223> OTHER INFORMATION: modified nucleotide at position 27:
 119 Pyridin-4-one (cf. Burgin et al., 1996)

121 <400> SEQUENCE: 6

W--> 122 gcgtctagcg gaaacgctac tgangagatt cc

why isn't this "n" too? (series "n" at location 24 is the same modified nucleotide)

125 <210> SEQ ID NO: 7
 126 <211> LENGTH: 22
 127 <212> TYPE: DNA
 128 <213> ORGANISM: artificial sequence
 130 <220> FEATURE:
 132 <220> FEATURE:
 133 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 134 RNA sequence
 136 <400> SEQUENCE: 7

*this is also a combined DNA/RNA**insufficient*

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,519

DATE: 09/19/2005

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

137 gcagcuaugg aaayguuaaa ag 22

140 <210> SEQ ID NO: 8

141 <211> LENGTH: 40

142 <212> TYPE: DNA

143 <213> ORGANISM: artificial sequence

145 <220> FEATURE:

147 <220> FEATURE:

148 <223> OTHER INFORMATION: Description of the artificial sequence: artificial RNA/DNA sequence

151 <220> FEATURE:

152 <221> NAME/KEY: modified base

153 <222> LOCATION: (29). (30) (29)

154 <223> OTHER INFORMATION: modified nucleotide at position 29: Pyridin-4-one (cf. Burgin et al., 1996)

157 <400> SEQUENCE: 8

W--> 158 ttttaacruc tagcggaac gctactgang acatagctgc 40

161 <210> SEQ ID NO: 9

162 <211> LENGTH: 54

163 <212> TYPE: DNA

164 <213> ORGANISM: artificial sequence

166 <220> FEATURE:

168 <220> FEATURE:

169 <223> OTHER INFORMATION: Description of the artificial sequence: primer

171 <400> SEQUENCE: 9

172 aattctaata cgactcacta taggggtgcta tgtcacttcc ccttggttct ctca 54

175 <210> SEQ ID NO: 10

176 <211> LENGTH: 46

177 <212> TYPE: DNA

178 <213> ORGANISM: artificial sequence

180 <220> FEATURE:

182 <220> FEATURE:

183 <223> OTHER INFORMATION: Description of the artificial sequence: primer

185 <400> SEQUENCE: 10

186 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa 46

189 <210> SEQ ID NO: 11

190 <211> LENGTH: 28

191 <212> TYPE: DNA

192 <213> ORGANISM: artificial sequence

194 <220> FEATURE:

196 <220> FEATURE:

197 <223> OTHER INFORMATION: Description of the artificial sequence: artificial RNA sequence

198 RNA sequence

200 <400> SEQUENCE: 11

201 tgaaucaaaa cgcgaaagcg ucuagcgu 28

204 <210> SEQ ID NO: 12

205 <211> LENGTH: 46

206 <212> TYPE: DNA

207 <213> ORGANISM: artificial sequence

209 <220> FEATURE:

also, give source of Artificial Sequence on another <223> line

also, this is a combined DNA/RNA

artificial insufficient

RAW SEQUENCE LISTING

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

211 ~~<220>~~ FEATURE:
 212 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: primer
 214 <400> SEQUENCE: 12
 215 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa 46
 218 <210> SEQ ID NO: 13
 219 <211> LENGTH: 15
 220 <212> TYPE: DNA
 221 <213> ORGANISM: artificial sequence
 223 ~~<220>~~ FEATURE:
 225 ~~<220>~~ FEATURE:
 226 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: artificial RNA sequence insufficient explanation
 227 RNA sequence
 229 <400> SEQUENCE: 13
 230 tacguaguucc gugcu 15
 233 <210> SEQ ID NO: 14
 234 <211> LENGTH: 13
 235 <212> TYPE: DNA
 236 <213> ORGANISM: artificial sequence
 238 ~~<220>~~ FEATURE:
 240 ~~<220>~~ FEATURE:
 241 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: primer
 243 <400> SEQUENCE: 14
 244 gcgtttcgat tcc 13
 247 <210> SEQ ID NO: 15
 248 <211> LENGTH: 142
 249 <212> TYPE: DNA
 250 <213> ORGANISM: Human immunodeficiency virus type 1
 252 ~~<220>~~ FEATURE: delete - no <221>, <222>, or <223>, no <220> is not needed
 254 <400> SEQUENCE: 15
 255 agtgggggga catcaagcag ctatgcaaac gttaaaagat actatcaatg aggaagctgc 60
 256 agaattgggac aggggtacatc cagtacatgc agggcctatt ccaccaggcc agatgagaga 120
 257 accaagggga agtgacatag ca 142
 260 <210> SEQ ID NO: 16
 261 <211> LENGTH: 24
 262 <212> TYPE: DNA
 263 <213> ORGANISM: artificial sequence
 265 ~~<220>~~ FEATURE:
 267 ~~<220>~~ FEATURE:
 268 ~~<223>~~ OTHER INFORMATION: Description of the artificial sequence: artificial DNA sequence insufficient
 269 DNA sequence
 271 <400> SEQUENCE: 16
 272 agcagctatg gaaaygttaa aaga 24
 275 <210> SEQ ID NO: 17
 276 <211> LENGTH: 54
 277 <212> TYPE: DNA
 278 <213> ORGANISM: artificial sequence
 280 <220> FEATURE:
 282 ~~<220>~~ FEATURE:
 283 <223> OTHER INFORMATION: Description of the artificial sequence: primer

RAW SEQUENCE LISTING

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:32

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

285 <400> SEQUENCE: 17
 286 aattctaata cgactcacta tagggagtg ggggacatca agcagctatg gaaa 54
 289 <210> SEQ ID NO: 18
 290 <211> LENGTH: 42
 291 <212> TYPE: DNA
 292 <213> ORGANISM: artificial sequence
 294 <220> FEATURE:
 296 ~~<220> FEATURE:~~
 297 <223> OTHER INFORMATION: Description of the artificial sequence: artificial
 298 RNA sequence
 300 <400> SEQUENCE: 18
 301 gggagtg gggg ggcacatcaag cagctatgga aayguaaaaa ga 42
 304 <210> SEQ ID NO: 19
 305 <211> LENGTH: 24
 306 <212> TYPE: DNA
 307 <213> ORGANISM: Escherichia coli
 309 ~~<220> FEATURE:~~ delete
 311 <400> SEQUENCE: 19
 312 taatgtctgg gaaactgcct gatg 24
 315 <210> SEQ ID NO: 20
 316 <211> LENGTH: 24
 317 <212> TYPE: DNA
 318 <213> ORGANISM: Escherichia coli
 320 ~~<220> FEATURE:~~
 322 <400> SEQUENCE: 20
 323 ataactactg gaaacggtag ctaa 24
 326 <210> SEQ ID NO: 21
 327 <211> LENGTH: 24
 328 <212> TYPE: DNA
 329 <213> ORGANISM: Escherichia coli
 331 ~~<220> FEATURE:~~
 333 ~~<400> SEQUENCE: 21~~
 334 agtcagatgt gaaatccccg ggct 24
 337 <210> SEQ ID NO: 22
 338 <211> LENGTH: 24
 339 <212> TYPE: DNA
 340 <213> ORGANISM: Escherichia coli
 342 ~~<220> FEATURE:~~
 344 <400> SEQUENCE: 22
 345 gtgtagcggg gaaatgcgta gaga 24
 348 <210> SEQ ID NO: 23
 349 <211> LENGTH: 24
 350 <212> TYPE: DNA
 351 <213> ORGANISM: Escherichia coli
 353 ~~<220> FEATURE:~~
 355 <400> SEQUENCE: 23
 356 gctcaggtgc gaaagcgtgg ggag 24
 359 <210> SEQ ID NO: 24
 360 <211> LENGTH: 24

also, this is
 a combined DNA/RNA
 insufficient

Please correct the types of error shown
 on this page, in subsequent sequences
 see p. 6 for MORE error

09/937,519

6

<210> 57
<211> 24
<212> DNA
<213> Vibrio parahaemolyticus

<220>

<400> 57

① nattgcattt gaaactggca gact

24

"n" needs exploration (see p. 7)

same env in seqs. 170-171, 188, 195

VARIABLE LOCATION SUMMARY

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:33

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; N Pos. 15

Seq#:6; N Pos. 24

Seq#:8; N Pos. 29

Seq#:57; N Pos. 1

Seq#:170; N Pos. 18

Seq#:171; N Pos. 19

Seq#:188; N Pos. 24

Seq#:195; N Pos. 24

*these sequences lack
explanations of "n"*

VERIFICATION SUMMARY

DATE: 09/19/2005

PATENT APPLICATION: US/09/937,519

TIME: 10:23:33

Input Set : A:\66741-013; seq. listing

Output Set: N:\CRF4\09192005\I937519.raw

L:52 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:2
L:52 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:730 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:57
L:730 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:57
L:730 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:57
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:1973 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:170
L:1973 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:170
L:1973 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:170
L:1973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:0
L:1984 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:171
L:1984 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:171
L:1984 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:171
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0
L:2171 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:188
L:2171 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:188
L:2171 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:188
L:2171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:188 after pos.:0
L:2248 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:195
L:2248 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:195
L:2248 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ ID#:195
L:2248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0